

**WHAT IS CLAIMED IS:**

1           1. A method of driving a plasma display panel having a  
2 first electrode and a second electrode located in parallel  
3 on a first substrate and having a third electrode located on  
4 a second substrate, comprising the steps of:

5           during a sustain period, transmitting a first sustain  
6 pulse to the first electrode and the third electrode for  
7 forming positive voltage differences between the first  
8 electrode and the second electrode and between the third  
9 electrode and the second electrode; and

10          during the sustain period, transmitting a second  
11 sustain pulse to the second electrode for forming negative  
12 voltage difference between the first electrode and the  
13 second electrode and between the third electrode and the  
14 second electrode;

15          wherein the first sustain pulse and the second sustain  
16 pulse are square-wave and out of phase, and a maximal  
17 voltage of the first sustain pulse and the second sustain  
18 pulse is lower than a first firing voltage between the first  
19 electrode and the second electrode and a second firing  
20 voltage between the third electrode and the second  
21 electrode.

1           2. The method of claim 1, wherein the first electrode  
2 is a sustain electrode, the second electrode is a scan  
3 electrode and the third electrode is an address electrode.

1           3. The method of claim 1, wherein the third electrode  
2 has a first part located under a rib for partitioning cells.

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3 and a second part just under the first electrode and  
4 electrically connected to the first part.

1 4. The method of claim 1, wherein the third electrode  
2 has a first part with a first width and a second part with a  
3 second width larger than the first width and just under the  
4 first electrode.

1 5. The method of claim 1, wherein the vertical  
2 distance from the first electrode to the first substrate is  
3 larger than that from the second electrode to the first  
4 substrate.

1 6. The method of claim 1, wherein the plasma display  
2 panel further includes an auxiliary electrode located on the  
3 second substrate and electrically connected to the third  
4 electrode, and the auxiliary electrode is parallel to the  
5 first electrode and located just under the first electrode.

1 7. A plasma display panel, comprising:  
2 a first substrate;  
3 a second substrate;  
4 a first electrode located on the first substrate and  
5 extended in a first direction;  
6 a second electrode located on the first substrate and  
7 parallel to the first electrode;  
8 a rib located on the second substrate and extended in a  
9 second direction perpendicular to the first direction; and  
10 a third electrode located on the second substrate;

11            wherein the third electrode has a first part located  
12            under the rib and a second part just under the first  
13            electrode and electrically connected to the first part.

1            8.    The plasma display panel of claim 7, where the  
2            second part of the third electrode is wider than the first  
3            electrode.

1            9.    A plasma display panel, comprising:  
2            a first substrate;  
3            a second substrate;  
4            a first electrode located on the first substrate and  
5            extended in a first direction;  
6            a second electrode located on the first substrate and  
7            parallel to the first electrode; and  
8            a third electrode located on the second substrate and  
9            extended in a second direction perpendicular to the first  
10           direction;  
11           wherein the third electrode has a first part with a  
12           first width and a second part with a second width larger  
13           than the first width and just under the first electrode.

1            10.   The plasma display panel of claim 9, wherein the  
2            ratio of the first width and the second width is about 1:3.

1            11.   A plasma display panel, comprising:  
2            a first substrate;  
3            a second substrate;  
4            a first electrode located on the first substrate and  
5            extended in a first direction;

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6 a second electrode located on the first substrate and  
7 parallel to the first electrode; and

8 a third electrode located on the second substrate and  
9 extended in a second direction perpendicular to the first  
10 direction;

11 wherein the vertical distance from the first electrode  
12 to the first substrate is larger than that from the second  
13 electrode to the first substrate.

1 12. A plasma display panel, comprising:

2 a first substrate;

3 a second substrate;

4 a first electrode located on the first substrate and  
5 extended in a first direction;

6 a second electrode located on the first substrate and  
7 parallel to the first electrode;

8 a third electrode located on the second substrate and  
9 extended in a second direction perpendicular to the first  
10 direction; and

11 an auxiliary electrode located on the second substrate  
12 and electrically connected to the third electrode;

13 wherein the auxiliary electrode is parallel to the  
14 first electrode and located just under the first electrode.